ATTORNEY DOCKET: 59866.000002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Number : 09/546,573 Confirmation No.: 3408

Applicant : Mads HOLTEN-ANDERSEN et al.

Filed : April 10, 2000

Title : TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES

TYPE-1 (TIMP-1) AS A CANCER MARKER

TC/Art Unit : 1642

Examiner: : Stephen L. Rawlings, Ph. D.

Docket No. : 59866.000002

Customer No. : 21967

MAIL STOP AMENDMENT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, applicants submit attached Form PTO-SB/08A (modified) for consideration and request the references cited therein be made of record by the U.S. Patent and Trademark Office in the above-captioned application.

Applicants respectfully point out that the submission of the listed references in this Information Disclosure Statement is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this Information Disclosure Statement is not an indication that a search has been made by Applicants.

For the convenience of the Examiner in considering the cited references, a copy of each of the cited references is enclosed with this communication. In considering the cited references, it may be noted by the Examiner that certain of the references may contain markings, underlinings, and/or other notations. These markings, underlinings, and/or other notations are not to be construed as drawing the Examiner's attention either to selected parts or away from other parts of the cited references. Any such markings were either present on the copies of the cited references obtained by the associated individuals, or were made thereon during the study of the

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: November 2, 2004

Hunton & Williams LLP Intellectual Property Department 1900 K Street, N.W. Suite 1200 Washington, DC 20006 (202) 955-1500 (telephone) (202) 778-2201 (facsimile) SA/sdw By:

Stanislaus Aksman

Registration No. 28,562

references by the associated individuals. Applicants respectfully point out that the submission of the listed references in this Supplemental Information Disclosure Statement is not an admission that they are prior art or that they are material to patentability of any claims of the application. Also, the submission of this Supplemental Information Disclosure Statement is not an indication that a search has been made by Applicants.

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Consideration of the foregoing plus the prompt return of a copy of the enclosed Form SB/08A with the Examiner's initials in the left column in accordance with MPEP 609 are respectfully requested.

In accordance with 37 C.F.R. § 1.97(c), this Supplemental Information Disclosure Statement is being filed (i) before the mailing date of a final Office Action for the above-identified patent application; (ii) before the mailing date of a Notice of Allowance for the above-identified patent application; or (iii) before the mailing date of an Office Action that otherwise closes prosecution in the above-identified patent application. Accordingly, this Supplemental Information Disclosure Statement is accompanied by a statement under 37 C.F.R. § 1.97(e).

The undersigned hereby states under 37 C.F.R. § 1.97(e)(2) that no item of information contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, after making reasonable inquiry, no item of information contained in this Supplemental Information Disclosure Statement was known to any individual associated with the filing and prosecution of the above-identified patent application more than three months prior to the filing of this Supplemental Information Disclosure Statement.

However, in the event any fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF PATENT AND TRADE					SERIAL NUMBER: 09/546,573		
LIST OF MATERIALS CITED BY APPLICANT				APPLICANT(S): Mads HOLTEN-ANDERSEN et al.					
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FILING ACKNOWLEDGMENT US PATENT AND TRADEMARK OFFICE

Mailing Date: 06/26/01 Attorney: KLB/jrc Date Due: Appln 09/546,573 File No.: 019829000310

Inventor(s): HOLTEN-ANDERSEN

Title:

Enclosures:

TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES TYPE-1

(TIMP-1) AS A CANCER MARKER

Transmittal Form (Form PTO/SB/21); Supplemental Information Disclosure Statement, Form PTO-1449 with copy of cited references: International Search Report and Certified Copy of Priority Document; Certificate of First

Class Mailing and Return Mail Room Postcard (this one).

Please stamp the date of receipt of the enclosed documents and return this card to addressee.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Attorney Docket No.: 019829000310 Client Reference No.: 20236US01

Assistant Commissioner for Patents Washington, D.C. 20231

On June 26, 2001

TOWNSEND and TOWNSEND and CREW LLP

By: All Clarke

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Holten-Andersen, Mads et al

Application No.: 09/546,573

Filed: April 10, 2000

For: TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES TYPE-1 (TIMP-1) AS A CANCER MARKER

Examiner: Rawlings, S.

Art Unit: 1642

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and §1.98

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. Also enclosed is a copy of the Search/Examination report corresponding to the PCT application. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and

Holten-Andersen, Mads et al. Application No.: 09/546,573

Page 2

no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that <u>no fee is required</u> for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Keyin Bastian Reg. No. 34,774

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, California 94111-3834

Tel: 415-576-0200 Fax: 415-576-0300

KLB:jrc

SF 1240697 v1

FORM PTO-1449 (Modified)			Attorney Docket No.: 019829000310 Application No.: 09/546,			
LIST OF PATENTS AND PUBLICATIONS FOR			Applicant: Holten-Anderser			
APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Filing Date: April 10, 2000	Group: 1642		
Reference Desig			J.S. PATENT DOCUMENT	`S	·	Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

PATEN	T
PROVISIONAL UTILITY	DESIGN PCT
Application No.: 09/546,573 Client/Matter No.: 59866.000002 Inventor(s): MADS HOLTEN-ANDERSEN ET AL. Filing Data: April 10, 2000	Date: JANUARY 2, 2004 Client: RIGHOSPITALET Atty/Sec.: SA/abs
Filing Date: April 10, 2000 Title: TISSUE INHIBITOR OF MATRIX METALLOF CANCER MARKER	
The following has been received in the Unifice on the date stamped hereon: Second Supplemental Information Disclosur Form PTO/SB/08A (1 pages) identifying 7 d International Search Report Dated 9/24/03	re Statement
	JAN 0 2 2004



APPL. No.: 09/546,573

ATTORNEY DOCKET: 59866.000002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)
M. N. Holten-Andersen et al.)
Appln. No.: 09/546,573) Art Unit: 1642
Filed: April 10, 2000) Examiner: S. L. Rawlings, Ph.D

For: TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES TYPE-1

(TIMP-1) AS A CANCER MARKER

2nd SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, and in compliance with the duty of disclosure set forth in 37 C.F.R. § 1.56, Applicants are submitting herewith copies of the documents listed on the attached Form PTO/SB/08A (modified) for consideration and to be made of record herein by the U.S. Patent and Trademark Office in the above-captioned application.

This 2nd Supplemental Information Disclosure Statement (IDS) is not to be construed as a representation that a search has, or has not, been conducted or that no better art exists. The filing of this 2nd Supplemental IDS is not to be construed as admission that the information cited in the IDS is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

APPL. No.: 09/546,573

ATTORNEY DOCKET: 59866.000002

Accordingly, Applicants respectfully request that the Examiner consider the documents cited on the PTO/SB/08A and that the Examiner indicate that the documents have been considered in this application by returning a copy of the Form PTO/SB/08A with the Examiner's initials in the left column per MPEP 609.

This 2nd Supplemental Information Disclosure Statement is filed prior to issuance of the first Office Action in this RCE application. Accordingly, no fees are due. If any fees are incurred upon the filing of this 2nd Supplemental Information Disclosure Statement, including any petition fees, please charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Date: January 2, 2004

By:

Stanislaus Aksman 9

Registration No. 28,562

HUNTON & WILLIAMS LLP 1900 K Street, N.W. Suite 1200 Washington, D.C. 20006-1109 Telephone: (202) 955-1500

Facsimile: (202) 778-2201

SA/abs

Filing Date April 10, 2000 First Named Inventor M. N. HOLTEN-ANDERSEN et al., At Unit 1642 Examiner Name S. L. Rawlings, Ph.D. Sheet 1 of 1 Attorney Docket Number 59866.000002 FOREIGN PATENT County Number - Kind Gode (if known) Mind D-yyyy Mind Polyyyyy Mind Docket Number Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear or New Yes No O0/62070 10-19-2000 Holten-Andersen et al. Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear No Non-PATENT LITERATURE DOCUMENTS Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear No Non-PATENT LITERATURE DOCUMENTS No O0/62070 10-19-2000 Holten-Andersen et al.	Substitute for form 1449A/PTO			Apr	plication Number	09/546,573					
STATEMENT BY APPLICANT (use as many sheets as necessary) At Unit 1642 Examiner Name S. L. Rawlings, Ph.D. Sheet 1 of 1 Attorney Docket Number 59866.000002 FOREIGN PATENT DOCUMENTS Summer of Patentee or Applicant of Cited Document or Relevant Passages with MA-DD-YYYY Applicant of Cited Document or Relevant Passages in No Relevant	INIE	- ~ [28.4.8.T.L	ОМ Г		OLIDE	Fili	ng Date	April 10, 2000		
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FOREIGN PATENT DOCUMENT Country Number - Kind Code Code: Mills Publication Date MM-D-YYYY NON-PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(), volume-issue masured during follow-up of colorectal cancer patients have clinical value in predicting patient outcome, "Proceedings Of The American Association For Cancer Research Annual, Vol. 43, March 2002, page 715 (Abstract) 3. TAKADA, N. et al., "Postoperative sequential changes of serum levels of matrix metalloproteinase and tissue inhibitor of metalloproteinase in Japanese patients with the squamous cell cacrinoma of esophagus, "Proceedings Of The American Association For Cancer Research Annual, Vol. 40, March 1999, gage 346 (Abstract) 3. HOLTEN-ANDERSEN, MADS N. et al., "Total levels of tissue inhibitor of metalloproteinase and tissue inhibitor of metalloproteinase in Japanese patients with the squamous cell cacrinoma of esophagus," Proceedings Of The American Association For Cancer Research Annual, Vol. 40, March 1999, gage 346 (Abstract) 3. HOLTEN-ANDERSEN, MADS N. et al., "Total levels of tissue inhibitor of metalloproteinase and tissue inhibitor of metalloproteinase in Japanese patients with colon cancer," Clinical Cancer Research, Annual, Vol. 40, March 1999, page 346 (Abstract) 3. HOLTEN-ANDERSEN, MADS N. et al., "Total levels of tissue inhibitor of metalloproteinase complexes in cancer," Cancer (Philadelphia), Vol. 76, No. 4, 1995, pages 700-708 3. HOLTEN-ANDERSEN, MADS N. et al., "Total levels of tissue inhibitor of metalloproteinases 1 in plasma yield high diagnostic sensitivity and specificity on patients with colon cancer," Clinical Cancer Research, No. 1, January 2002, pp. 156-164 2. HOLTEN-ANDERSEN, MADS N. et al., "Total levels of tissue inhibitor of metalloproteinases 1 in plasma yield high diagnostic sensitivity and specificity on patients with colon cancer," Clinical Cancer Res				1	<u> L'</u>			only booker rainbor			
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complexes in cancer," Cancer (Philadelphia), Vol. 76, No. 4, 1995, pages 700-708 X HOLTEN-ANDERSEN, MADS N. et al., "Total levels of tissue inhibitor of metalloproteinases 1 in plasma yield high diagnostic sensitivity and specificity on patients with colon cancer," Clinical Cancer Research: An Official Journal Of The American Association For Cancer Research, Vol. 8, No. 1, January 2002, pp. 156-164 ZHOU, W. et al., "Identifying markers for pancreatic cancer by gene expression analysis," Database Medline [Online], Abstract of Cancer Epidemiology, Biomarkers & Prevention: A Publication Of The American Association For Cancer Research, Cosponsored by The American Society Of Preventive Oncology, 2/1998, Vol. 7, No. 2, 2 pages, (Abstract) International Search Report for Application No. PCT/DK03/00230, mailed September 24, 2003 *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation			March	1999, pa	age 346 (Abst	tract)					
5. HOLTEN-ANDERSEN, MADS N. et al., "Total levels of tissue inhibitor of metalloproteinases 1 in plasma yield high diagnostic sensitivity and specificity on patients with colon cancer," Clinical Cancer Research: An Official Journal Of The American Association For Cancer Research, Vol. 8, No. 1, January 2002, pp. 156-164 6. ZHOU, W. et al., "Identifying markers for pancreatic cancer by gene expression analysis," Database Medline [Online], Abstract of Cancer Epidemiology, Biomarkers & Prevention: A Publication Of The American Association For Cancer Research, Cosponsored by The American Society Of Preventive Oncology, 2/1998, Vol. 7, No. 2, 2 pages, (Abstract) 7. International Search Report for Application No. PCT/DK03/00230, mailed September 24, 2003 *EXAMINER SIGNATURE DATE CONSIDERED *EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation		4.									l
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UTILITY 🖂

DESIGN

Application Serial No.: 09/546,573 Inventor: M. N. Holten-Andersen et al.

Client/Matter: 59866.000002 Client: Righospitalet

Filing Date: April 10, 2000

Atty/Sec.: SA/sdw

Date: August 21, 2001

Title: TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES

TYPE-1 (TIMP-1) AS A CANCER MARKER

The following has been received in the U.S. Patent and Trademark Office on the date stamped hereon:

1. Supplemental Information Disclosure Statement

2. Form PTO/SB/08A

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.ty. Docket: 59866.000002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)	
M. N. Holten-Andersen et al.)	
Serial No.: 09/546,573)	Art Unit: 1642
Filed: April 10, 2000)	Examiner: S. Rawlings

For: TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES TYPE-1 (TIMP-1) AS A CANCER MARKER

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO/SB/08A.

Applicants submit this Supplemental Information Disclosure Statement

("Supplemental IDS") pursuant to a recent telephone conversation with Mr. Rawlings, the

Examiner responsible for the application. Mr. Rawlings acknowledged receipt of an IDS filed on

June 26, 2001, but requested that Applicants file a Supplemental IDS listing on an appropriate

form all the references identified in the International Search Report submitted with the June 26th

IDS. Mr. Rawlings also confirmed that the references were received with the June 26th IDS, and

no additional copies thereof were needed.

Applicants respectfully request that the Examiner consider the references cited on the Form PTO/SB/08A and that the Examiner indicate that the references have been considered

.ity. Docket: 59866.000002

in this application by returning a copy of the Form PTO/SB/08A with the Examiner's initials in

the left column per MPEP 609.

Applicants respectfully point out that the submission of the references is not an

admission that they are prior art or that they are material to patentability of any claims of the

application. Also, the submission of the June 26th IDS or Supplemental IDS is not an indication

that a search has been made.

This Supplemental IDS is submitted prior to the issuance of a first Office Action

on the merits; therefore, it is believed that no fees are required in connection therewith. If any

fees are necessitated by the filing of this Information Disclosure Statement, please charge the

undersigned's Deposit Account No. 50-0206.

Date: August 20, 2001

HUNTON & WILLIAMS

Respectfully submitted,

Stanislaus Aksman

200820

Registration No. 28,562

1900 K Street, N.W., Suite 1200 Washington, D.C. 20006-1109

Ph. (202) 955-1500 Fax (202) 778-2201

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO				Complete if Known		
				Application Number	09/546,573	
INFC	RMATION	DIS	CLOSURE	Filing Date	04-10-2000	
STA	TEMENT BY	/ A	PPLICANT	First Named Inventor	Mads Holten-Andersen et al.	
				Group Art Unit	1642	
(use as many sheets as necessary)		Examiner Name	S. Rawlings			
Sheet	1	of	1	Attorney Docket Number	59866.000002	

			U.S. PATENT DOCUM	MENTS		
U.S. Patent Docur			Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant	
Examiner Initials *	Cite No.1	Number Kind Code ² (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	
	U1	5,324,634	Zucker	06-28-1994		

FOREIGN PATENT DOCUMENTS								
	a	Foreign Patent Document			Name of Patentee	Date of Publication of	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	Cite No. ¹	Office ³	Number ⁴	Kind Code ⁵ (<i>if known</i>)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	Té
	F1		9738314	wo	Miller et al.	10-16-1997		

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	`
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	P1	National Library of Medicine, PubMed Website, "Serum levels of a tissue inhibitor of metalloproteinases-1 (TIMP-1) in bladder cancer patients", Naruo S et al., Int J Urol, Vol. 1, No. 3 September 1994, pp. 238-231, see abstract	
	P2	National Library of Medicine, PubMed Website, "Tissue inhibitors of metalloproteinases (TIMP) in invasion and proliferation", Henriet P. et al., APMIS, Vol. 109, No. 1, January 1999, pp. 111-119, see abstract	
	Р3	Patent Abstracts of Japan, JP8136548 A, Morinaga, 05-31-1996	
	P4	Dialog Information Services, File 159, Cancerlit, acession no. 93691448, Guillem JG et al., " Evaluation of tissue inhibitor of metalloproteinase-1 (TIMP-1) as a prognostic marker of human colorectal cancer invation", Proc Annu Meet Am Assoc Cancer Res: 34:A466 1993	
	P5	Dialog Information Services, File 159, Cancerlit, accession no. 96647008, " Elevated tissue inhibitor of metalloproteinase 1 RNA in colorectal cancer stroma correlates with lymph node and distant metastases" Clin Cancer Res; 1(8): 899-906 1995 Zeng Z et al.	

		,
Examiner Signature	Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark hee if English language Translation is attached.

PATENT

ATTORNEY DOCKET: 59866.000002

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	
M. N. Holten-Andersen et al.	
Serial No.: 09/546,573	Art Unit: 1642
Filed: April 10, 2000	Examiner: S. L. Rawlings, Ph.D

For: TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES

TYPE-1 (TIMP-1) AS A CANCER MARKER

INFORMATION DISCLOSURE STATEMENT

MAIL STOP DD
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicant respectfully requests consideration of the references listed on the attached Form PTO/SB/08A (modified). Copies of the references listed are also enclosed.

This Information Disclosure Statement (IDS) is not to be construed as a representation that a search has, or has not, been conducted or that no better art exists. The filing of this IDS is not to be construed as admission that the information cited in the IDS is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

Accordingly, Applicant respectfully requests that the Examiner consider the references cited on the PTO/SB/08A and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO/SB/08A with the Examiner's initials in the left column per MPEP 609.



This Information Disclosure Statement is being submitted after the mailing of a final Office Action. Pursuant to 37 C.F.R. § 1.97(d)(2), a check in the amount of \$180.00 as set forth in § 1.17(p) is enclosed. In the event any variance exists between the amount enclosed and the Patent Office charges, please charge or credit any difference to the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Dated: July 10, 2003

By:

Stanislaus Aksman Registration No. 28,562

HUNTON & WILLIAMS LLP 1900 K Street, N.W. Suite 1200 Washington, D.C. 20006-1109 Telephone: (202) 955-1500 Facsimile: (202) 778-2201



PTO/SB/08A (10/01) (modified) =

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Substitute for form 1449A/PTO 09/546,573 **Application Number** Filing Date April 10, 2000 INFORMATION DISCLOSURE First Named Inventor Mads N. Holten-Andersen STATEMENT BY APPLICANT 1642 Art Unit (use as many sheets as necessary) **Examiner Name** S. Rawlings , **Attorney Docket Number** 59866.000002 1 of Sheet NON-PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the TRANSLATION item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue *Examiner Cite number(s), publisher, city and/or country where published Mads N. Holten-Andersen et al., "Measurement of the Noncomplexed Free Fraction of Tissue Inhibitor of Metalloproteinases I in Plasma by Immunoassay", Clinical Chemistry 48:8, 1305-1313 Mads N. Holten-Andersen et al., "Total Levels of Tissue Inhibitor of Metalloproteinases 1 in Plasma 2. Yield High Diagnostic Sensitivity and Specificity in Patients with Colon Cancer", Clinical Cancer Research, Vol. 8, 156-164, January 2002

EXAMINER SIGNATURE

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DEST AVAILABLE COPY

PATEN	T	•	
PROVISIONAL UTILITY Application No.: 09/546,573 Client/Matter No.: 59866.000002 Inventor(s): M. N. Holten-Andersen et al. Title: TISSUE INHIBITOR OF MATRIX META AS A CANCER MARKER The following has been received in the looffice on the date stamped hereon: RCE Transmittal Form Supplemental Information Disclosure State Form PTO/SB/08A with Copies of 12 Reference of State of Stat	Date: Client: Atty/Sec ALLOPRO U.S. Pate atement	SA/jt TEINASES TYPE-1	(TIMP-

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APPL. No.: 09/546,573 ATTORNEY DOCKET: 59866.000002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	
M. N. Holten-Andersen et al.)
Appl. No.: 09/546,573) Art Unit: 1642
Filed: April 10, 2000) Examiner: S. L. Rawlings, Ph.D.

For: TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES

TYPE-1 (TIMP-1) AS A CANCER MARKER

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicant respectfully requests consideration of the references listed on the attached Form PTO/SB/08A (modified). Copies of the references listed are also enclosed.

This Information Disclosure Statement (IDS) is not to be construed as a representation that a search has, or has not, been conducted or that no better art exists. The filing of this IDS is not to be construed as admission that the information cited in the IDS is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

Accordingly, Applicant respectfully requests that the Examiner consider the references cited on the PTO/SB/08A and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO/SB/08A with the Examiner's initials in the left column per MPEP 609.

It is respectfully submitted that no fee is required for consideration of this information. However, in the event any fee is deemed necessary, the Commissioner is authorized to charge the undersigned's Deposit Account No. 50-0206.

Respectfully submitted,

HUNTON & WILLIAMS LLP

Date:

By:

∦anislaus Aksman

Registration No. 28,562

HUNTON & WILLIAMS LLP 1900 K Street, N.W.

Suite 1200

Washington, D.C. 20006-1109

Telephone: (202) 955-1500 Facsimile: (202) 778-2201

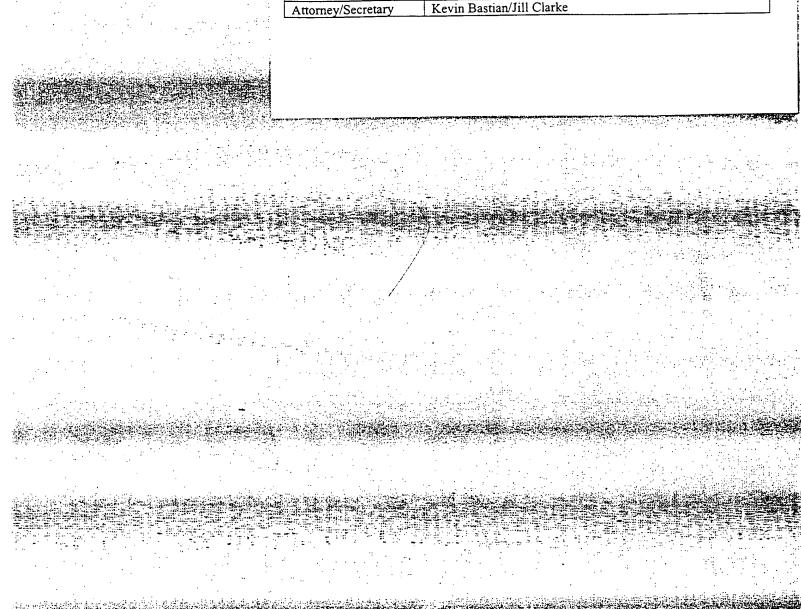
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5		Epidemiology, Biomarkers & Prevention, (1998), 7(2), 109-112. Wood, et al., "In Situ Hybridization Studies Of Metalloproteinases 2 And 9 And TIMP-1 And TIMP-2									
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9) F	Cancer," Cancer, American Cancer Society, Philadelphia, PA, vol. 76, no. 9, August 15, 1995. Henriet, et al., "Tissue Inhibitors of Metalloproteinases (TIMP) in Invasion and Proliferation", APMIS, Copenhagen, DK, vol. 107, no. 1, 1999.									
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-	11. V	vo	00	/20860 A	04-13-200	0	Calbiochem Novabiochem Corp).			
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TO THE U.S. PATENT AND TRADEMARK OFFICE

of receipt of the folloging document(s) and return this card to us:		
HOLTEN-ANDE. N, Mads et al.		
TISSUE INHIBITOR OF MATRIX		
METALLOPROTEINASES TYPE-1 (TIMP-1) AS A		
CANCER MARKER		
PTO/SB/21 Transmittal Form; Information Disclosure		
Statement, Form PTO-1449, photocopy of 35 references		
cited and Certificate of First Class Mailing.		
09/546,573		
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March 27, 2001		

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Attorney Docket No.: 18484-002130US

Assistant Commissioner for Patents Washington, D.C. 20231

on March 27, 2001

TOWNSEND and TOWNSEND and CREW LLP

Jill R. Clarke

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

HOLTEN-ANDERSEN, Mads

Application No.: 09/546,573

Filed: April 10, 2000

For: TISSUE INHIBITOR OF MATRIX METALLOPROTEINASES TYPE-1 (TIMP-1)

AS A CANCER MARKER

Examiner: Unassigned

Art Unit: 1643

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.97 and

§1.98

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and

HOLTEN-ANDERSL₁N, Mads Application No.: 09/546,573

Page 2

no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicants believe that <u>no fee is required</u> for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Reg. No. 34,774

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, California 94111-3834

Tel: 415-576-0200 Fax: 415-576-0300

KLB/jrc

SF 1205238 v1

FORM PTO-1449 (Modified)			Attorney Docket No.: 0	.: 09/546,573		
LIST OF PATE	NTS AND PUBL		Applicant: HOLTEN-A	NDERSEN, Mads		
APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)			Filing Date: April 10, 2	Group: 1643		
Reference Desig	nation	Ţ	J.S. PATENT DOCUM	ENTS		Page 1
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
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AG	Acad. Sci. USA	82:2779-2783 (19				ion," Proc. Natl.
AH	DeClerck et al., "Inhibition of Invasion and Metastasis in Cells Transfected with an Inhibitor of Metalloproteinases," Cancer Research 52:701-708 (1992)					
AI	Monoclonal An	tibodies," Clinica	wich Enzyme Immunoas Chimica Acta 220:31-45	(1993)		
AJ	Prevents Dimer	ization, Complex 1	-kDa Type IV Collagena Formation with Interstitia ogical Chemistry 267:45	il Collagenase, and A	thibitor of Metallop Activation of the Pr	oroteinases oenzyme with
AK	Hembry et al., "Immunolocalization of Tissue Inhibitor of Metalloproteinases (TIMP) in Human Cells Characterization and Use of a Specific Antiserum," J. Cell. Sci. 73:105-119 (1985)					
AL	Holten-Andersen et al., "Quantitation of TIMP-1 in Plasma of Healthy Blood Donors and Patients with Advanced Cancer," British Journal of Cancer 80:495-503 (1999)					
AM	Metalloproteina 74:220-223 (19	ises-1/Tissue Inhib 97)	nases 1 and 3, Tissue Inh pitor in Plasma of Patients	s with Prostate Canc	er," Int. J. Cancer	(Pred. Oncol.)
AN	Jung et al., "What kind of Specimen Should be Selected for Determining Tissue Inhibitor of Metalloproteinases-1 (TIMP-1) in Blood?" Clinica Chimica Acta 254:97-100 (1996)					
AO	Jung et al., "Role of Specimen Collection in Preanalytical Variation of Metalloproteinases and Their Inhibitors in Blood," Clinical Chemistry 42:2043-2045 (1996)					
AP	Keyszer et al., "Circulating Levels of Matrix Metalloproteinases MMP-3 and MMP-1, Tissue Inhibitor of Metalloproteinases 1 (TIMP-1), and MMP-1/TIMP-1 Complex in Rheumatic Disease. Correlation with Clinical Activity of Rheumatoid Arthritis versus Other Surrogate Markers," <i>The Journal of Rheumatology</i> 26:251-258 (1999)					
AQ	Kjeldsen et al., "Subcellular Localization and Release of Human Neutrophil Gelatinase, Confirming the Existence of Separate Gelatinase-containing Granules," <i>Biochem. J.</i> 287:603-610 (1992)					
AR	Khokha and Waterhouse, "The role of tissue inhibitor of metalloproteinase-1 in specific aspects of cancer progression and reproduction," Journal of Neuro-Oncology 18:123-127 (1994)					

ORM PTO-144	9 (Modified)	Attorney Docket No.: 019829000310	Application No.: 09/546,573		
JIST OF PATE	NTS AND PUBLICATIONS FOR	Applicant: HOLTEN-ANDERSEN, Mads			
APPLICANT'S STATEMENT (INFORMATION DISCLOSURE Use several sheets if necessary)	Filing Date: April 10, 2000 Group: 1643			
AS	1) in B16-F10 Melanoma Cells," J	asion by Inducible Expression of Tissue Inh Sournal of the National Cancer Institute 84:1	017-1021 (1992)		
AT	Khokha et al., "Up-regulation of T Ability in Chick Embryo," Clin. E	TMP-1 Expression in B16-F10 Melanoma C xp. Metastasis 10:365-370 (1992)	ells Suppresses their Metastatic		
AU	Kleiner et al., "Stability Analysis of Metalloproteinases-2 (TIMP-2)	of Latent and Active 72-kDA Type IV Collagory, Biochemistry 32:1583-1592 (1993)			
AV	Kodama et al., "A Sandwich Enzy Matrix 9:1-6 (1989)	me Immunoassay for Collagenase Inhibitor			
AW	64:327-336 (1991)	nd Angiogenesis: An Imbalance of Positive			
AX	MacDougall and Matrisian, "Cont Invasion and Metastasis," Cancer	ributions of Tumor and Stromal Matrix Meta and Metastasis Reviews 14:351-362 (1995)			
AY	Matrisian, "The Matrix-Degrading Metalloproteinases," BioEssays 14:455-463 (1992)				
AZ	Mimori, "Clinical Significance of Journal of Cancer 76:531-536 (19	Tissue Inhibitor of Metalloproteinase Express 197)	ssion in Gastric Carcinoma," British		
BA	Isolation and Characterization of t	nulated M _r 92,000 Gelatinase Secreted by No the Enzyme from HT1080 Tumor Cells," <i>Ca</i>	ncer Research 30:0102-0170 (1990)		
BB	Moutsiakis et al., "Characterization Plasma," Connective Tissue Research	n of Metalloproteinases and Tissue Inhibitor arch 28:213-230 (1992)	s of Metalloproteinases in Human		
BC	Inhibitor Activity," Biochemistry	Domain of Tissue Inhibitor of Metalloprotein 30:8097-8102 (1991)			
BD	Clinic." Seminars in Cancer Biolo	netalloproteinases and Tumor Invasion: from 1975 from 19			
BE	Stetler-Stevenson et al., "Tissue Inhibitor of Metalloproteinases (TIMP-2) A New Member of the Metalloproteinase Inhibitor Family," <i>The Journal of Biological Chemistry</i> 264:17374-17378 (1989)				
BF	Stetler-Stevenson et al., "Extracel metastasis," The FASEB Journal	lular matrix 6: Role of matrix metalloprotei 7:1434-1441 (1993)	nases in tumor invasion and		
BG	Thorgeirsson et al., "Tumor invasion, proteolysis, and angiogenesis," Journal of Neuro-Oncology 18:89-103 (1994)				
ВН	Welgus et al., "Human Skin Fibroblast Collagenase: Interaction with Substrate and Inhibitor," Collagen Rel. Res. 5:167-179 (1985)				
BI	Wilhelm et al., "SV40-transformed Human Lung Fibroblasts Secrete a 92-kDA Type IV Collagenase Which Is Identical to That Secreted by Normal Human Macrophages," <i>The Journal of Biological Chemistry</i> 264:17213-17221 (1989)				
BJ	Zucker et al., "Plasma Assay of Gelatinase B: Tissue Inhibitor of Metalloproteinase Complexes in Cancer," Cancer 76:700-708 (1995)				
		DATE CONSIDERED			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.